Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1.   (Withdrawn) A database for storing information, comprising: a first element type field for storing information on a plurality of first elements; a second element type field, different than the first element type field, for storing information on a plurality of second elements; the first and second element types being selected from the list of photocuring system elements including substrates, photoinitiators, light sources, sensitizers, UV stabilizers, pigments and dyes; and the first element type field and second element type field each including a name for each element and a representation of a wavelength response for each element.

2.   (Withdrawn) The database of claim 1, wherein: the wavelength response for each element is broken into wavelength regions, each wavelength region be represented by a symbol.

3.   (Withdrawn) The database of claim 2, wherein: the wavelength response is for wavelengths between 200 nm and 1000 nm and each wavelength region is 50 nm wide.

4.   (Withdrawn) The database of claim 1, further comprising: a third element type, different than the first and second element types, selected from the list of photocuring system elements, the third element type field including a name for each element and a representation of a wavelength response for each element.

5.   (Currently Amended) A method of optimizing the performance of a light curing polymer system including multiple component types, the component types including a light source, a photoinitiator and a substrate, where the light source is arranged to radiate its light

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through the substrate to the photoinitiator, the light source operating at a set of wavelengths, the substrate allowing only a set of wavelengths of light to pass there through and the photoinitiators only activated when it is irradiated with a set of wavelengths, the method of optimizing including the steps of:

selecting a first component from a database, said first component operating at a first set of wavelengths defining a first wavelength spectrum; and

selecting a second component from the database of a type different than the type of the first component, the second component operating at a second set of wavelengths and having a second wavelength spectrum, at least one of said second set of wavelengths being present in said first set of wavelengths.

6.   (Previously Presented)   The method of claim 5, wherein within the database, wavelength regions are established and a representative name is assigned to each wavelength region.

7.   (Original)   The method of claim 6, wherein the set of wavelengths for each component are identified using the representative names for the wavelength regions into which the component wavelength set fall.

8.   (Original)   The method of claim 7, wherein said representative names of the selected first component are compared to the representative names of the plurality of second components so that only a second component having at least one representative name in common with the selected first component can be chosen.

9.   (Previously Presented)   The method of claim 8, comprising the further step of: selecting a third component from the database different than the first or second component from a plurality of possible third components, the third component operating at a third set of wavelengths and having a third wavelength spectrum, at least one of said third set of wavelengths being present in said first set of wavelengths.

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10.   (Currently Amended)   A method of comparing characteristics of components of a light curing polymer system where a light source is directed through the substrate to the photoinitiator, the light source operating at a first range of wavelengths, the substrate allowing only a second range of wavelengths of light to pass there through and the photoinitiator only being activated when it is irradiated with a third range of wavelengths, the method of comparing including the steps of:

storing the characteristics of the constituents in memory, the characteristics including name and wavelength response;

selecting a first component;

selecting a second component; and

graphically displaying on the same display, the name and wavelength response of the first component and the second component.

11.   (Original)   The method of claim 10, further comprising the step of: determining an area of an overlapping region of the wavelength responses of the first and second components.

12.   (Original)   The method of claim 11, wherein the area determination is performed using a sum of the rectangles under the overlapping curves method.

13.   (Withdrawn) A method for designing photocuring systems, comprising the steps of: connecting a user terminal with a remote computer storing a photocuring database containing a first element type field for storing information on a plurality of first elements, a second element type field, different than the first element type field, for storing information on a plurality of second elements, the first and second element types being selected from the list of photocuring system elements including substrates, photoinitiators, light sources, sensitizers, UV stabilizers, pigments and dyes and the first element type field and second element type field each including a name for each element and a representation of a wavelength response for each element; transmitting a first signal representative of a selection of a first element to the remote computer; transmitting a

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second signal representative of a selection of a second element to the remote computer;
receiving from the remote computer a signal containing information on the wavelength
response of the first and second elements.

14.   (Previously Presented)   The method of claim 5 further comprising:
presenting on a display a menu for selection of a component from the database, the
database including at least a set of first components of a first component type and a set of
second components of a second component type; and

presenting on the display at least one second component chosen from the set of second
components, each of the chosen at least one second component operating at a second set
of wavelengths and having a second wavelength spectrum, the at least one second
component chosen because at least one of said second set of wavelengths is present in the
first set of wavelengths, wherein the second component is selected from the at least one
second component displayed.

15.   (Previously Presented)   The method of claim 10 further comprising:
presenting on a display a menu for selection of a component from a database, the database
including at least a set of first components of a first component type and a set of second
components of a second component type; and

presenting on the display at least one second component chosen from the set of second
components, each of the chosen at least one second component operating at a second set
of wavelengths and having a second wavelength spectrum, the at least one second
component chosen because at least one of said second set of wavelengths is present in the
first set of wavelengths, wherein the second component is selected from the at least one
second component displayed.